



Choosing The Right Heat Pump For Your Home

The Five Main Questions You Need Answering

1

Is A Heat Pump Suitable For My Home?

Heat pumps are suitable for all types of buildings! We have successfully completed heat pump installations in homes from 2 bed terraced houses built in the 1950s to large manor homes built in the 17-1800s. Please check our case studies pages to learn more.

What is important when considering the installation of a heat pump is to minimise heat loss where practical. If you are building a property, already have a well-insulated home or are extensively renovating and making improvements to insulation and windows, then your home will already be suitable for a heat pump but even if you are not undertaking building works, then they are still an option.



To help save the planet and lower running costs, it's obvious that we should try to keep as much heat inside our homes as possible. Heat pumps run best and cost less to run at lower temperatures than fossil fuel boilers so for a property to be effectively heated with a low temperature heating system, it's essential to reduce the heat losses as much as possible.

A heat pump is right for you if:

- ✓ You are looking for a low-carbon, sustainable way to heat your home
- ✓ You are looking to reduce your long term energy bills
- ✓ Your heating system can work at lower temperatures than fossil fuel boilers

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Which Is Best For Me: An Air Source Or Ground Source Heat Pump??

This is a really difficult question to answer because it depends on what's most suitable for the project and you as the homeowner!

Don't worry, though, because we will provide you with all the information and advice you need to make the right choice for your home. If you are looking for an efficient, low-carbon heat source and want minimal disruption during installation, then you might choose an air source heat pump. If you have a large plot, expect to do groundworks, or are easily able to, and are looking for maximum efficiency, you might pick a ground source heat pump. Both are great options against fossil fuel boilers and both qualify for the Boiler upgrade scheme to help offset the upfront cost of installation.

Helping you to choose:

Air Source Heat Pump

- ✓ Approx. 3-400% efficient
- ✓ Minimal Sound
- ✓ A popular option for properties with smaller gardens
- ✓ Heat pump installed outside in close proximity to the property

Ground Source Heat Pump

- ✓ Approx. 4-500% efficient
- ✓ Consistent year-round performance
- ✓ Heat pump installed inside in a plant room
- ✓ Totally hidden installation once complete
- ✓ Ability to provide free cooling and ground recharging

3 How Much Will A Heat Pump Cost To Run & Install?

Installation Costs

The cost of installing a heat pump varies depending on the requirement of the project, the type of heat pump you choose and many other factors. As a rough guide, you could expect the design, supply and installation of an air source heat pump to cost in the region of £12,000 - £15,000. And for a ground source heat pump, £25,000 - £30,000.

Low Running Costs

A well-designed heat pump system can provide low running costs that are similar to mains gas, so you benefit from a greener way to heat your home that is also cost-effective and sustainable long-term.

Get Paid To Go Green

Don't forget that you can apply for the Boiler Upgrade Scheme, where you can benefit from a one off voucher payment of £5,000 of an air source heat pump and £6,000 for a ground source heat pump to cover the upfront costs of installation.

Heat Source	Fuel Cost (kWh)	Efficiency (%)	Real Cost (kWh)
GSHP	15.0p	400	3.7p
Mains Gas	4.2p	89	4.7p
ASHP	15.0p	300	5.0p
Oil	4.8p	92	5.2p
LPG	5.8p	89	6.5p
Electric	15.0p	100	15.0p

4 Should I Choose Underfloor Heating Or Radiators?

Heat pumps are most efficient when run at low temperatures over a sustained period of time.

As underfloor heating systems use water that is around 30-45°C (best systems run around 35°C, compared to a traditional radiator system that uses water around 70-80°C, integrating a heat pump with underfloor heating is the preferred combination, ensuring you get the maximum benefit from your heat pump system.

With that said it is not feasible to install UFH in all properties, so radiators are a great alternative.

In order to balance the efficiency of the heat pump, the radiators would need to be larger than standard radiators and do work well when designed around 45°C. they need to be bigger to ensure the correct heat output and to make sure you are comfortable.



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Why Choose Thermal Earth?



You should choose Thermal Earth as we are experts in designing and installing heat pumps, with over 15 years' experience. As a MCS accredited company since 2009, we know what it takes to provide you with an efficient system that effectively heats your home, whilst also keeping running costs low.

We also offer the complete package and will carefully design and manage everything, from your first point of contact right up until installation. But our service doesn't stop there as we also offer lifetime support on our systems, giving you complete peace of mind.



With over 15 Years Experience:

- ✓ **Bespoke heating design** - To maximise the efficiency of your heat pump
- ✓ **Connected systems** - We only supply systems that has the ability to be connected to the internet. This gives you total peace of mind knowing that we can login immediately following a call but also allow us to review the long term operation making sure you are making the most from your system.
- ✓ **MCS accredited supplier** - We design MCS compliant renewable systems that qualify for government grants.
- ✓ **Free lifetime support** - We support our systems for life, so you can always call on us for technical support.
- ✓ **Long warranty** - All our heat pumps come with a warranty of 5 to 7 years when commissioned by Thermal Earth
- ✓ **Registered BUS Installer** - We are an official installer for the boiler upgrade scheme, meaning that you can benefit from a voucher of up to £6000 to cover the up-front costs of installing a heat pump.





Looking for advice on your project? Our team are on hand to talk through the options for your project.

Simply give us a call or drop us an email:

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